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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/749,479	12/26/2000	Kenya Takashima	FUJO 18.115	4388
26304	7590	06/09/2004	EXAMINER	
KATTEN MUCHIN ZAVIS ROSENMAN			BRUCKART, BENJAMIN R	
575 MADISON AVENUE			ART UNIT	
NEW YORK, NY 10022-2585			PAPER NUMBER	

2155

DATE MAILED: 06/09/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/749,479

Applicant(s)

TAKASHIMA ET AL.

Examiner

Benjamin R Bruckart

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 December 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

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Detailed Action

Claims 1-33 are pending in this Office Action.

Information Disclosure Statement

The information disclosure statement filed on paper 2 has been considered.

Change of Address

The change of address received on 11/27/02 has been entered.

Foreign Priority

Receipt is acknowledged of papers submitted on December 26, 2000 under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file. Attention is directed to the fact that the date for which foreign priority is claimed is not the date of the filed application acknowledged in the oath or declaration. The priority data of 3/27/2004 is given priority.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-33 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No 5,251,205 by Callon et al.

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With regards to claim 1, a routing information mapping device (Callon: col. 13, lines 14-19), comprising:

a transmitting unit transmitting packets with information about whether a self-device belongs to a connection-oriented network (Callon: col. 39, lines 65- col. 40, line 25);

a receiving unit extracting information about whether another device from which a packet is received belongs to the connection-oriented network and information about a configuration of a network from the device (Callon: col. 39, lines 22-27, 48-62); and

a tree generation unit generating a routing tree of a network that clearly indicates a device belonging to the connection-oriented network, based on the information extracted by the receiving unit (Callon: col. 13, lines 14-19; Figures 4A and 4B; col. 1, lines 40-50). *See also col. 21, line 67 through col. 22, line 2.* mm

With regards to claim 2, the routing information mapping device according to claim 1, further comprising:

a judgment unit judging whether the self-device is an edge device of the connection-oriented network, based on the routing tree of the network (Callon: col. 1, lines 51-65).

With regards to claim 3, the routing information mapping device according to claim 2, further comprising:

an outside network information acquisition unit obtaining information about an outside network connected to the connection-oriented network from both the routing tree and information about the edge device of the connection-oriented network (Callon: col. 13, lines 14-19; Figures 4A and 4B and col. 8, lines 49-57).

With regards to claim 4, the routing information mapping device according to claim 3, further comprising:

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a mapping unit generating a table for relating routing information of the connection-oriented network to routing information of the outside network connected to the self-device if the self-device is the edge device (Callon: col. 13, lines 14-19; Figures 4A and 4B; col. 1, lines 40-50).

With regards to claim 5, the routing information mapping device according to claim 1, wherein

said transmitting unit attaches information about a connection protocol used by the self-device to the packet and transmits the information (Callon: col. 39, lines 22-27; col. 39, line 65-col. 40, line 11, lines 16-26).

With regards to claim 6, the routing information mapping device according to claim 1, comprising:

a server unit receiving both information about a configuration of the network and information about whether the self-device belongs to the connection-oriented network from each device and transmitting both the information about the configuration of the network and information about whether each device belongs to the connection-oriented network to a requesting device at a request of each device (Callon: Abstract; share via common LSP; col. 40, lines 33-52).

With regards to claim 7, the routing information mapping device according to claim 6, wherein

said sever unit receives information about a connection protocol used by each device from each device (Callon: col. 39, lines 65 – col. 40, line 6; Protocols supported), stores the information (Callon: col. 11, lines 7-25) and transmits the information to the requesting device at the request of each device (Callon: Abstract; share via common LSP; col. 40, lines 33-52).

With regards to claim 8, the routing information mapping device according to claim 1, wherein

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the packet is transmitted/received using a routing protocol (Callon: col. 2, lines 15-26).

With regards to claim 9, the routing information mapping device according to claim 1, wherein

the packet is transmitted/received using a connection protocol (Callon: col. 7, lines 14-21; col. 2, lines 26-41).

With regards to claim 10, the routing information mapping device according to claim 4, wherein

the table for relating routing information of the connection-oriented network to routing information of the outside network connected to the self-device that is transmitted from another device is used in the self-device as routing information (Callon: col. 13, lines 14-24).

With regards to claim 11, the routing information mapping device according to claim 10, wherein

if the tables are obtained from the plurality of other devices, a cost of a route of the network from which the table is obtained is calculated and the table transmitted via the route with an optimal cost is used (Callon: col. 13, lines 14-24; best; col. 21, lines 5-34).

With regards to claim 12, a routing information mapping method (Callon: col. 13, lines 14-19), comprising:

(a) transmitting a packet with information about whether a self-device belongs to a connection-oriented network (Callon: col. 39, lines 65- col. 40, line 25);

(b) extracting both information about whether another device from which a packet is received belongs to the connection-oriented network and information about a

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configuration of a network from the other device (Callon: col. 39, lines 22-27, 48-62);
and

(c) generating a routing tree of the network that clearly indicates a device belonging to the connection-oriented network, based on the information extracted in step (b) (Callon: col. 13, lines 14-19; Figures 4A and 4B; col. 1, lines 40-50).

With regards to claim 13, the routing information mapping device according to claim 12, further comprising:

(d) judging whether the self-device is an edge device of the connection-oriented network, based on the routing tree of the network (Callon: col. 1, lines 51-65; Figure 1).

With regards to claim 14, the routing information mapping method according to claim 13, further comprising:

(e) obtaining information about an outside network connected to the connection-oriented network from both the routing tree and information about the edge device of the connection-oriented network (Callon: col. 13, lines 14-19; Figures 4A and 4B and col. 8, lines 49-57).

With regards to claim 15, the routing information mapping method according to claim 14, further comprising:

(f) generating a table for relating routing information of the connection-oriented network to routing information of the outside network connected to the self-device if the self-device is the edge device (Callon: col. 13, lines 14-19; Figures 4A and 4B; col. 1, lines 40-50).

With regards to claim 16, the routing information mapping method according to claim 12, wherein

in step (a), information about a connection protocol used by the self-device is attached to the packet and is transmitted (Callon: col. 39, lines 22-27; col. 39, line 65-col. 40, line 11, lines 16-26).

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With regards to claim 17, the routing information mapping method according to claim 12, further comprising:

(g) receiving both information about the configuration of the network and information about whether the self-device belongs to the connection-oriented network from each device, storing the obtained information and transmitting both the information about the configuration of the network and information about whether each device belongs to the connection-oriented network to a requesting device at a request of each device (Callon: Abstract; share via common LSP; col. 40, lines 33-52).

With regards to claim 18, the routing information-mapping method according to claim 17, wherein

in step (g), information about a connection protocol used by each device is received from each device (Callon: col. 39, lines 65 – col. 40, line 6; Protocols supported), the information is stored (Callon: col. 11, lines 7-25) and the information is transmitted to the requesting device at the request of each device (Callon: Abstract; share via common LSP; col. 40, lines 33-52).

With regards to claim 19, the routing information mapping method according to claim 12, wherein

the packet is transmitted/received using a routing packet (Callon: col. 2, lines 15-26).

With regards to claim 20, the routing information mapping method according to claim 12, wherein

the packet is transmitted/received using a connection packet (Callon: col. 7, lines 14-21; col. 2, lines 26-41).

With regards to claim 21, the routing information mapping method according to claim 15, wherein

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the table for relating routing information of the connection-oriented network to routing information of the outside network connected to the self-device that is transmitted from another device is used in the self-device as routing information (Callon: col. 13, lines 14-24).

With regards to claim 22, the routing information mapping method according to claim 21, wherein

if the tables are obtained from the plurality of other devices, a cost of a route of the network from which the table is obtained is calculated and the table transmitted via a route with an optimal cost is used (Callon: col. 13, lines 14-24; best; col. 21, lines 5-34).

With regards to claim 23, a storage medium on which is recorded a program for enabling a processor to execute routing information mapping (Callon: col. 13, lines 14-19), said process comprising:

(a) transmitting a packet with information about whether a self-device belongs to a connection-oriented network (Callon: col. 39, lines 65- col. 40, line 25);

(b) extracting both information about whether another device from which a packet is received belongs to the connection-oriented network and information about a configuration of the network from the device (Callon: col. 39, lines 22-27, 48-62); and

(c) generating a routing tree of the network that clearly indicates the device belonging to the connection-oriented network, based on the information extracted in step (b) (Callon: col. 13, lines 14-19; Figures 4A and 4B; col. 1, lines 40-50).

With regards to claim 24, the storage medium according to claim 23, said process further comprising:

(d) judging whether a self-device is an edge device of the connection-oriented network, based on the routing tree of the network (Callon: col. 1, lines 51-65; Figure 1).

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With regards to claim 25, the storage medium according to claim 24, said process further comprising:

(e) obtaining information about an outside network connected to the connection-oriented network from both the routing tree and information about the edge device of the connection-oriented network (Callon: col. 13, lines 14-19; Figures 4A and 4B and col. 8, lines 49-57).

With regards to claim 26, the storage medium according to claim 25, said process further comprising:

(f) generating a table for relating routing information of the connection-oriented network to routing information of the outside network connected to the self-device if the self-device is the edge device (Callon: col. 13, lines 14-19; Figures 4A and 4B; col. 1, lines 40-50).

With regards to claim 27, the storage medium according to claim 23, wherein

in step (a), information about a connection protocol used by the self-device is attached to the packet and is transmitted (Callon: col. 39, lines 22-27; col. 39, line 65-col. 40, line 11, lines 16-26).

With regards to claim 28, the storage medium according to claim 23, said process further comprising:

(g) receiving both information about the configuration of the network and information about whether the self-device belongs to a connection-oriented network from each device, storing the obtained information and transmitting both the information about the configuration of the network and information about whether each device belongs to the connection-oriented network to a requesting device at a request of each device (Callon: Abstract; share via common LSP; col. 40, lines 33-52).

With regards to claim 29, the storage medium according to claim 28, wherein

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in step (g), information about a connection protocol used by each device is received from each device (Callon: col. 39, lines 65 – col. 40, line 6; Protocols supported), the information is stored (Callon: col. 11, lines 7-25) and the information is transmitted to the requesting device at the request of each device (Callon: Abstract; share via common LSP; col. 40, lines 33-52).

With regards to claim 30, the storage medium according to claim 23, wherein the packet is transmitted/received using a routing packet (Callon: col. 2, lines 15-26).

With regards to claim 31, the storage medium according to claim 23, wherein the packet is transmitted/received using a connection packet (Callon: col. 7, lines 14-21; col. 2, lines 26-41).

With regards to claim 32, the storage medium according to claim 23, wherein a table for relating routing information of the connection-oriented network to routing information of an outside network connected to the self-device that is transmitted from another device is used in the self-device as routing information (Callon: col. 13, lines 14-24).

With regards to claim 33, the storage medium according to claim 23, wherein if a plurality of tables are obtained from the plurality of other devices, a cost of a route of the network from which the table is obtained is calculated and the table transmitted via the route with an optimal cost is used (Callon: col. 13, lines 14-24; best; col. 21, lines 5-34).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin R Bruckart whose telephone number is (703)

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305-0324. The examiner can normally be reached on 8:00-5:30 PM with every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (703) 308-6662. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-0324.

Benjamin R Bruckart
Examiner
Art Unit 2155
brb
June 8, 2004

BRB


HOSAIN ALAM
SUPERVISORY PATENT EXAMINER